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<u>L3</u>	patent near portfolio	48	<u>L3</u>
<u>L2</u>	patent near portfolio near analysis	0	<u>L2</u>
<u>L1</u>	6704743.pn.	1	<u>L1</u>

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Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 6233575 B1

L4: Entry 1 of 2

File: USPT

May 15, 2001

US-PAT-NO: 6233575

DOCUMENT-IDENTIFIER: US 6233575 B1

TITLE: Multilevel taxonomy based on features derived from training documents
classification using fisher values as discrimination values

DATE-ISSUED: May 15, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Agrawal; Rakesh	San Jose	CA		
Chakrabarti; Soumen	San Jose	CA		
Dom; Byron Edward	Los Gatos	CA		
Raghavan; Prabhakar	Saratoga	CA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
International Business Machines Corporation	Armonk	NY				02

APPL-NO: 09/102861 [\[PALM\]](#)

DATE FILED: June 23, 1998

PARENT-CASE:

PROVISIONAL APPLICATION The present application claims the benefit of U.S. Provisional Application Ser. No. 60/050,611, entitled "USING TAXONOMY, DISCRIMINANTS, AND SIGNATURES FOR NAVIGATING IN TEXT DATABASES", filed Jun. 24, 1997, by Rakesh Agrawal, et al., which is incorporated herein by reference, in its entirety.

INT-CL-ISSUED: [07] G06F 17/30

INT-CL-CURRENT:

TYPE IPC DATE
CIPP G06 F 17/30 20060101

US-CL-ISSUED: 707/6; 707/2, 706/12

US-CL-CURRENT: 707/6; 706/12, 707/2, 707/E17.091

FIELD-OF-CLASSIFICATION-SEARCH: 707/1-10, 707/100-104, 707/200-206, 707/500-503, 707/511-516, 707/531-536, 707/907, 706/12-21, 706/25-28, 706/45-55, 706/60-61, 706/934, 382/156-157

See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4975975</u>	December 1990	Filipski	382/227
<u>5168565</u>	December 1992	Morita	707/3
<u>5317507</u>	May 1994	Gallant	707/532
<u>5325298</u>	June 1994	Gallant	704/9
<u>5418946</u>	May 1995	Mori	707/1
<u>5428778</u>	June 1995	Brookes	707/5
<u>5469354</u>	November 1995	Hatakeyama et al.	707/3
<u>5506984</u>	April 1996	Miller	707/10
<u>5519857</u>	May 1996	Kato et al.	707/5
<u>5535382</u>	July 1996	Ogawa	707/5
<u>5557794</u>	September 1996	Matsunaga et al.	707/3
<u>5568640</u>	October 1996	Nishiyama et al.	707/1
<u>5576954</u>	November 1996	Driscoll	707/3
<u>5600827</u>	February 1997	Nakabayashi et al.	707/2
<u>5625767</u>	April 1997	Bartell et al.	345/440
<u>5659724</u>	August 1997	Borgida et al.	707/3
<u>5675710</u>	October 1997	Lewis	706/12
<u>5826260</u>	October 1998	Byrd, Jr. et al.	707/5
<u>5838816</u>	November 1998	Holmberg	382/157
<u>5918240</u>	June 1999	Kupiec et al.	707/531

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	CLASS
0 744 702 A1	November 1996	EP	17/30

OTHER PUBLICATIONS

Ho, T.K. et al., decision combination in multiple classifier systems, IEEE transactions on pattern analysis and machine intelligence, vol. 16, No. 1, pp 66-75, Jan. 1994.*

Soumen Chakrabarti et al., Enhanced hypertext categorization using hyperlinks, proceedings of ACM SIGMOD international conference on Management of data, and 307-318, Jun. 1998.*

Yuwono, B et al., search and ranking algorithms for locating resources on world wide web, proceedings of the 12th international conference, pp 164-171, Mar. 1996.*

Hill, P. et al., "Multiple Views of Product Information", IBM Technical Disclosure Bulletin, vol. 39, No. 02, pp. 17-24 (Feb. 1996).

Rus, D. et al., "Using Non-Textual Cues for Electronic Document Browsing", Digital

Libraries Workshop DL '94, Newark, NJ, USA, May 19-20, 1994 Selected Papers, Chapter 9, pp. 129-162.

Koller, D. et al., "Hierarchically Classifying Documents Using Very Few Words", The Fourteenth International Conference on Machine Learning, pp. 170-178 (Jul. 1997).

Mladenic D., "Feature Subset Selection in Text-Learning", 10.sup.th European Conference on Machine Learning, pp. 95-100, (1998).

Yang, Y. et al., "A Comparative Study on Feature Selection in Text Categorization", International Conference on Machine Learning, pp. 412-420 (Jul. 1997).

Apte, C. et al., "Automated Learning of Decision Rules for Text Categorization", IBM Research Report RC 18879. To Appear in ACM Transactions on Information Systems, pp. 1-20 (no date).; vol. 12, Issue 3, accepted Mar. 1994.

Schutze, H. et al., "A Comparison of Classifiers and Document Representations for the Routing Problem", Proceedings of the 18.sup.th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval, pp. 229-237 (Jul. 1995).

Lewis, D., "Evaluating Text Categorization", Proceedings of the Speech and Natural Language Workshop, Asilomar, pp. 312-318 (Feb. 1991).

Lewis, D., "Feature Selection and Feature Extraction for Text Categorization", Speech and Natural Language: Proceedings of a Workshop Held at Harriman, New York pp. 212-217 (Feb. 1992).

Koller, D., "Toward Optimal Feature Selection", In Lorenza Saitta, ed., Machine Learning: Proc. Of the Thirteenth International Conference, Morgan Kaufmann, 9 pages, (1996).

Panyr, J., "STEINADLER--a system of automatic description and classification of documents", Nachr. Dok, vol. 29, No. 4-5, pp. 184-191 (Sep. 1978) (Abstract in English). Abstract in English Only Considered.

ART-UNIT: 217

PRIMARY-EXAMINER: Breene; John

ASSISTANT-EXAMINER: Channavajjala; Srirama

ATTY-AGENT-FIRM: Gates & Cooper LLP

ABSTRACT:

A system, process, and article of manufacture for organizing a large text database into a hierarchy of topics and for maintaining this organization as documents are added and deleted and as the topic hierarchy changes. Given sample documents belonging to various nodes in the topic hierarchy, the tokens (terms, phrases, dates, or other usable feature in the document) that are most useful at each internal decision node for the purpose of routing new documents to the children of that node are automatically detected. Using feature terms, statistical models are constructed for each topic node. The models are used in an estimation technique to assign topic paths to new unlabeled documents. The hierarchical technique, in which feature terms can be very different at different nodes, leads to an efficient context-sensitive classification technique. The hierarchical technique can handle millions of documents and tens of thousands of topics. A resulting taxonomy and path enhanced retrieval system (TAPER) is used to generate context-dependent document indexing terms. The topic paths are used, in addition to keywords, for better focused searching and browsing of the text database.

32 Claims, 10 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KIMC	Draw. D.
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☐ 2. Document ID: US 6038561 A

L4: Entry 2 of 2

File: USPT

Mar 14, 2000

US-PAT-NO: 6038561

DOCUMENT-IDENTIFIER: US 6038561 A

**** See image for Certificate of Correction ****

TITLE: Management and analysis of document information text

DATE-ISSUED: March 14, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Snyder; David L.	Pittsford	NY		
Calistri-Yeh; Randall J.	Webster	NY		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Manning & Napier Information Services	Rochester	NY			02

APPL-NO: 08/929603 [PALM]

DATE FILED: September 15, 1997

PARENT-CASE:

This application claims the benefit of U.S. Provisional Application No. 60/028,437, filed Oct. 15, 1996, the full disclosure of which is incorporated by reference.

CROSS-REFERENCE TO RELATED APPLICATIONS This application claims priority from the following U.S. Provisional Application, the disclosure of which, including all appendices and all attached documents, is incorporated by reference in its entirety for all purposes: U.S. Provisional Patent Application, serial no. 60/028,437, David L. Snyder and Randall J. Calistri-Yeh, entitled, "Management and Analysis of Patent Information Text (MAPIT)", filed Oct. 15, 1996. Further, this application incorporates by reference the following U.S. patent applications in their entirety for all purposes: U.S. patent application Ser. No. 08/696,702, pending Elizabeth D. Liddy, et. al. entitled, "User Interface and Other Enhancements for Natural Language Information Retrieval System and Method", filed Aug. 14, 1996; and U.S. Provisional Patent Application, serial no. 60/042,295, Michael L. Weiner and John J. Kolb V., entitled, "Method and Apparatus for Automatic Extraction and Graphic Visualization of Textual Information", filed Apr. 1, 1997.

CROSS-REFERENCE TO ARTICLES Further, this application incorporates by reference the following articles in their entirety for all purposes: Liddy, E. D., Paik, W., Yu, E. S. & McVearry, K., "An overview of DR-LINK and its approach to document filtering," Proceedings of the ARPA Workshop on Human Language Technology (1993); Liddy, E. D. & Myaeng, S. H. (1994). DR-LINK System: Phase I Summary. Proceedings of the TIPSTER Phase I Final Report. Liddy, E. D., Paik, W., Yu, E. S. & McKenna, M. (1994). Document retrieval using linguistic knowledge. Proceedings of RIAO '94 Conference. Liddy, E. D., Paik, W., Yu, E. S. Text categorization for multiple users based on semantic information from an MRD. ACM Transactions on Information Systems. Publication date: 1994. Presentation date: July, 1994. Liddy, E. D., Paik, W., McKenna, M. & Yu, E. S. (1995) A natural language text retrieval system with relevance feedback. Proceedings of the 16th National Online Meeting. Paik, W., Liddy, E. D., Yu, E. S. & McKenna, M. Categorizing and standardizing proper nouns for efficient information retrieval. Proceedings of the ACL Workshop on Acquisition of Lexical Knowledge from

Text. Publication date: 1993. Paik, W., Liddy, E. D., Yu, E. S. & McKenna, M. Interpretation of Proper Nouns for Information Retrieval. Proceedings of the ARPA Workshop on Human Language Technology. Publication date: 1993. Salton, G. and Buckley, C. Term-weighting Approaches in Automatic Text Retrieval. Information Processing and Management. Volume 24, 513-523. Publication date: 1988 ("Salton reference").

INT-CL-ISSUED: [07] G06F 17/30

INT-CL-CURRENT:

TYPE IPC DATE
CIPP G06 F 17/30 20060101

US-CL-ISSUED: 707/6; 707/2, 707/3, 707/10, 707/522

US-CL-CURRENT: 707/6; 707/10, 707/2, 707/3, 707/E17.08, 707/E17.093, 715/522

FIELD-OF-CLASSIFICATION-SEARCH: 707/9, 707/10, 707/6, 707/1, 707/2, 707/3, 707/4, 707/5

See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4736308</u>	April 1988	Heckel	364/200
<u>4788538</u>	November 1988	Klein et al.	340/747
<u>5433199</u>	July 1995	Cline et al.	128/653.1
<u>5442778</u>	August 1995	Pedersen et al.	707/10
<u>5483650</u>	January 1996	Pedersen et al.	707/10
<u>5622178</u>	April 1997	Gilham	128/696
<u>5623679</u>	April 1997	Rivette et al.	707/3
<u>5623681</u>	April 1997	Rivette et al.	707/522
<u>5675819</u>	October 1997	Schuetze	395/760
<u>5696963</u>	December 1997	Ahn	707/51R
<u>5754840</u>	May 1998	Rivette et al.	395/709
<u>5761661</u>	June 1998	Coussens et al.	707/9
<u>5787422</u>	July 1998	Tukey et al.	707/5
<u>5799325</u>	August 1998	Rivette et al.	707/579
<u>5806079</u>	September 1998	Rivette et al.	707/500
<u>5809318</u>	September 1998	Rivette et al.	707/2
<u>5845301</u>	December 1998	Rivette et al.	707/5
<u>5848409</u>	December 1998	Ahn	707/526

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	CLASS
0561241 A2	September 1993	EP	15/40

OTHER PUBLICATIONS

Liddy, E.D., Paik, W., Yu, E.S. & McVearry, K., "An overview of DR-LINK and its approach to document filtering," Proceedings of the ARPA Workshop on Human Language Technology (1993).

Liddy, E.D. & Myaeng, S.H., "DR-LINK System: Phase I Summary." Proceedings of the TIPSTER Phase I Final Report, (1994).

Liddy, E.D., Paik, W., Yu, E.S. & McKenna, M., "Document retrieval using linguistic knowledge." Proceedings of RIAO '94 Conference, (1994).

Liddy, E.D., Paik, W., Yu, E.S., "Text categorization for multiple users based on semantic information from an MRD." ACM Transactions on Information Systems. Publication date: 1994. Presentation date: (1994).

Liddy, E.D., Paik, W., McKenna, M. & Yu, E.S., "A natural language text retrieval system with relevance feedback." Proceedings of the 16th National Online Meeting, (1995).

Paik, W., Liddy, E.D., Yu, E.S. & McKenna, M., "Categorizing and standardizing proper nouns for efficient information retrieval." Proceedings of the ACL Workshop on Acquisition of Lexical Knowledge from Text, (1993).

Paik, W., Liddy, E.D., Yu, E.S. & McKenna, M., "Interpretation of Proper Nouns for Information Retrieval." Proceedings of the ARPA Workshop on Human Language Technology, (1993).

Salton, G. and Buckley, C. "Term-weighting Approaches in Automatic Text Retrieval." Information Processing and Management. vol. 24, 513-523. Publication date: (1988) ("Salton reference").

ART-UNIT: 277

PRIMARY-EXAMINER: Amsbury; Wayne

ASSISTANT-EXAMINER: Alam; Shahid

ATTY-AGENT-FIRM: Townsend and Townsend and Crew LLP

ABSTRACT:

An interactive system for analyzing and displaying information contained in a plurality of documents employing both term-based analysis and conceptual-representation analysis. Particulars of the invention are especially effective for analyzing patent texts, such as patent claims, abstracts and other portions of a patent document.

68 Claims, 35 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw D
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
CORPUS	6081
CORPU	1
(3 AND CORPUS).USPT.	2

(L3 AND CORPUS) .USPT.	2
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